

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

To:
GLAXO SMITHKLINE
 Corporate Intellectual Property
 Attn. Giddings, Peter John
 CN925.1, 980 Great West Road
 Brentford
 Middlesex TW8 9GS
 UNITED KINGDOM

NOTIFICATION OF TRANSMITTAL OF
 THE INTERNATIONAL SEARCH REPORT AND
 THE WRITTEN OPINION OF THE INTERNATIONAL
 SEARCHING AUTHORITY, OR THE DECLARATION

GlaxoSmithKline
Corporate IP
Received BRENTFORD

08 JUN 2005

(PCT Rule 44.1)

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| ATTY: | SCB | ADMIN: | SCB |
| TELE-NUM: | 01603 851605 | TELE-MON: | 01603 851605 |

Date of mailing
 (day/month/year)

08/06/2005

Applicant's or agent's file reference: **SCB/PB60754**

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.
PCT/EP2005/001939

International filing date
 (day/month/year) **21/02/2005**

Applicant

GLAXO GROUP LIMITED

1. The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

- the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the International application, or of the priority claim, must reach the International Bureau as provided in Rules 90b/s.1 and 90b/s.3, respectively, before the completion of the technical preparations for International publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an International preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for International preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority

 European Patent Office, P.B. 5818 Patentlaan 2
 NL-2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Federico Bonomelli

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

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| Applicant's or agent's file reference SCB/PB60754 | FOR FURTHER ACTION | see Form PCT/ISA/220 as well as, where applicable, Item 5 below. |
| International application No. PCT/EP2005/001939 | International filing date (day/month/year) 21/02/2005 | (Earliest) Priority Date (day/month/year) 23/02/2004 |
| Applicant GLAXO GROUP LIMITED | | |

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 16. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. Certain claims were found unsearchable (See Box II).

3. Unity of invention is lacking (see Box III).

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

PYRIMIDINE DERIVATIVES AS CANNABINOID RECEPTOR MODULATORS

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. _____

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b. none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

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| International Application No PCT/EP2005/001939 |
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| A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D239/42 C07D401/12 A61K31/505 A61P29/00 |
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| According to International Patent Classification (IPC) or to both national classification and IPC |
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| B. FIELDS SEARCHED |
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| Minimum documentation searched (classification system followed by classification symbols) |
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| IPC 7 C07D A61K A61P |
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| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched |
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| Electronic data base consulted during the International search (name of data base and, where practical, search terms used) |
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| EPO-Internal, CHEM ABS Data, WPI Data |
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| C. DOCUMENTS CONSIDERED TO BE RELEVANT |
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| Category | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|----------|--|-----------------------|
| A | WO 00/39101 A (ASTRAZENECA UK LIMITED; BRADBURY, ROBERT, HUGH; BREAULT, GLORIA, ANNE,) 6 July 2000 (2000-07-06) the whole document | 1-10 |
| A | WO 97/09315 A (SIGNAL PHARMACEUTICALS, INC; SUTO, MARK, J; GOLDMAN, MARK, E; GAYO, LE) 13 March 1997 (1997-03-13) the whole document | 1-10 |
| P,A | WO 2004/018434 A (GLAXO GROUP LIMITED; EATHERTON, ANDREW, JOHN; GIBLIN, GERARD, MARTIN,) 4 March 2004 (2004-03-04) the whole document | 1-10 |

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| <input type="checkbox"/> Further documents are listed in the continuation of box C. |
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| <input checked="" type="checkbox"/> Patent family members are listed in annex. |
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* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

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| Date of the actual compilation of the International search |
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| Date of mailing of the International search report |
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| 2 June 2005 |
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| 08/06/2005 |
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| Name and mailing address of the ISA |
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|---|
| European Patent Office, P.O. 5018 Patentlann 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 81 651 epo nl, Fax: (+31-70) 340-3016 |
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| Authorized officer |
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| Lauro, P |
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/001939

| Patent document cited in search report | Publication date | Patent family member(s) | | Publication date |
|--|------------------|---|--|--|
| WO 0039101 | A 06-07-2000 | AT 277020 T AU 763091 B2 AU 1874300 A BR 9916590 A CA 2352896 A1 CN 1335838 A DE 69920509 D1 EP 1140860 A1 ES 2228145 T3 WO 0039101 A1 JP 2002533446 T NO 20013038 A NZ 512118 A US 6593326 B1 ZA 200104413 A | | 15-10-2004 10-07-2003 31-07-2000 23-10-2001 06-07-2000 13-02-2002 28-10-2004 10-10-2001 01-04-2005 06-07-2000 08-10-2002 22-08-2001 29-08-2003 15-07-2003 29-08-2002 |
| WO 9709315 | A 13-03-1997 | US 5811428 A AU 726058 B2 AU 7013096 A AU 726522 B2 AU 7163196 A CA 2230894 A1 CA 2230896 A1 EP 0850228 A1 JP 11512390 T JP 11512399 T WO 9709325 A1 WO 9709315 A1 US 5935966 A | | 22-09-1998 26-10-2000 27-03-1997 09-11-2000 27-03-1997 13-03-1997 13-03-1997 01-07-1998 26-10-1999 26-10-1999 13-03-1997 13-03-1997 10-08-1999 |
| WO 2004018434 | A 04-03-2004 | AU 2003260436 A1 WO 2004018434 A1 EP 1534687 A1 | | 11-03-2004 04-03-2004 01-06-2005 |